INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/12205

A. CLASS Int.	IFICATION OF SUBJECT MATTER C1 H01L21/60, B23K20/24, H01L2	21/02, H05K3/34		
According to	o International Patent Classification (IPC) or to both nati	ional classification and IPC		
	SEARCHED			
Minimum do	ocumentation searched (classification system followed by	y classification symbols)	/34	
Int.	Cl' H01L21/60, B23K20/24, H01L2	21/U2, HUILZ1/68, HU5K3	/ J4	
Documentati	ion searched other than minimum documentation to the	extent that such documents are included i	n the fields searched	
Jitsu Kokai	nyo Shinan Koho 1922-1996 Litsuyo Shinan Koho 1971-2003	Toroku Jitsuyo Shinan Koho Jitsuyo Shinan Toroku Koho	1994–2003 1996–2003	
Electronic da	ata base consulted during the international search (name	of data base and, where practicable, sear	ch terms used)	
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<u>-</u>	MENTS CONSIDERED TO BE RELEVANT		Delement	
Category*	Citation of document, with indication, where app		Relevant to claim No.	
Y	· ·	LECTRIC INDUSTRIAL	1-2,4,8, 10-19,21-25	
A	CO., LTD.), 10 December, 1999 (10.12.99),	• · · · · · · · · · · · · · · · · · · ·	3,5-7,9,20	
	Full text; Figs. 1 to 7			
.	(Family: none)			
·Y	JP 2002-273197 A (MATSUSHITA	ELECTRIC INDUSTRIAL	1-2,4,8,	
_	CO., LTD.),		10-19,21-25	
A	24 September, 2002 (24.09.02)	,	3,5-7,9,20	
	Full text; Figs. 1 to 6 (Family: none)			
.,		\. · ·	1-2,4,8,	
Y	JP 5-235061 A (Hitachi, Ltd.) 10 September, 1993 (10.09.93)		10-19,21-25	
A	Full text; Figs. 1 to 18		3,5-7,9,20	
j	& JP 3207506 B2			
Further documents are listed in the continuation of Box C. See patent family annex.				
	al categories of cited documents: tent defining the general state of the art which is not	"I" later document published after the int priority date and not in conflict with t	emational filing date or he application but cited to	
conside	ered to be of particular relevance	understand the principle or theory understand the principle or theory under "X" document of particular relevance; the	derlying the invention	
date	document but published on or after the international filing	considered novel or cannot be consid-	ered to involve an inventive	
cited t	nent which may throw doubts on priority claim(s) or which is no establish the publication date of another citation or other	step when the document is taken alon "Y" document of particular relevance; the	claimed invention cannot be	
	l reason (as specified) nent referring to an oral disclosure, use, exhibition or other	considered to involve an inventive ste combined with one or more other suc	h documents, such .	
means "P" document published prior to the international filing date but later		combination being obvious to a personal document member of the same patent	on skilled in the art	
than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report				
27 (October, 2003 (27.10.03)	11 November, 2003	(11.11.03)	
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PCT/JP03/12205

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	JP 4-341554 A (Hitachi, Ltd.), 27 November, 1992 (27.11.92), Fig. 2	2,4
Y	& JP 3291737 B2 JP 2001-237213 A (Sanyo Electric Co., Ltd.), 31 August, 2001 (31.08.01), Full text; Figs. 1 to 4 (Family: none)	11 .
. Y	JP 2002-217242 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.), 02 August, 2002 (02.08.02), Full text; Figs. 1 to 27 (Family: none)	17
Y	US 2001/0001428 A1 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.), 24 May, 2001 (24.05.01), Par. No. [0082] & JP 2000-077569 A Par. No. [0096] & US 6218736 B1	22
Y	JP 6-338535 A (Kabushiki Kaisha Sonikkusu), 06 December, 1994 (06.12.94); Par. No. [0024] (Family: none)	23
A	JP 10-321677 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.), 04 December, 1998 (04.12.98), Full text; Figs. 1 to 7 & JP 3409635 B2	5-7